

Title (en)  
INJECTOR-PUMP UNIT FOR DIESEL ENGINES, INCLUDING A CONTROL-SLEEVE

Publication  
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Application  
**EP 89890092 A 19890405**

Priority  
DE 3811846 A 19880408

Abstract (en)  
[origin: EP0336925A1] The invention relates to an injector-pump unit for diesel engines, in which an injection-pump element having a pump plunger (1) driven by a camshaft and having an element bushing is combined with an injection nozzle to form a unit which is to be assigned to in each case one engine cylinder. The pump plunger (1) is surrounded by an axially displaceable control sleeve (11) which controls the beginning of injection as a function of its axial position. A regulating member (15) is guided on the pump-element body (10) in such a way as to be rotatable relative to the control sleeve (11) as a function of an operating parameter of the engine. The control sleeve (11) or the regulating member (15) has a track (25, 46, 50, 52) extending in a circle in plan view, which at least in part encloses an angle of inclination with a plane normal to the axis of the pump plunger (1). Interacting with this track is a guide element (23, 47, 49, 53), which is rigidly connected to the respective other part (namely the regulating member (15) or the control sleeve (11)). Due to the interaction of this guide element with the track, the control sleeve (11) is raised or lowered upon relative rotation and hence the beginning of injection controlled. The track (25, 46, 50, 52) can also have angles of inclination of varying size and/or direction in successive sections. <IMAGE>

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